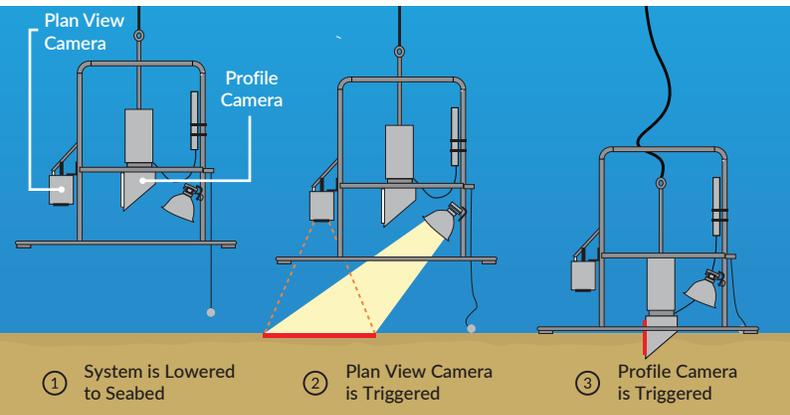


# Sediment Profile Imaging (SPI)

## System Features and Technical Specifications



Concept of operation of Sediment Profile Imaging and Plan View camera systems

### System Features

- Digital SPI images instantly available in the field (24.1 megapixel DX-Format CMOS Sensor, 4000 x 6000 pixels, viewable area of seabed 21.6 cm by 15.2 cm)
- Plan View camera (24.1 megapixel DX-Format CMOS Sensor 4000 x 6000 pixels), equipped with bottom contact switch, acquires seafloor surface image just prior to SPI image capture
- System disassembles and is boxed for shipment via air or sea freight to any global location
- No termination, special coaxial cable, or slip-ring enabled winch required; all sensors are battery-operated and internally recording
- Easily deployed from vessels of opportunity (requires only a winch with sufficient wire/synthetic rope to handle water depth and weight of equipment)
- Time-lapse capability available in all systems
- SPI image quality is never affected by water turbidity; clear, high-resolution images always obtained
- Additional sensors such as CTD, methane, or USBL, easily integrated into the system
- SPI system configurable for handheld, diver, or ROV use. Diver Configuration allows data collection under piers/docks/subsea infrastructure or sensitive environments where precise placement is required

### Technical Specifications\*

	Deep Water System		Shallow Water System		Handheld or Diver System	
Depth Range	4 m to 4000 m		2 m to 1000 m		<1.5 m	800 m
Housing Material	17-4 PH SS		316 SS and 6061-T6 AL		6061-T6 AL	
System Total Height	68 in	173 cm	68 in	173 cm	32 in	82 cm
Bottom Frame Base Length	62 in	158 cm	66 in	168 cm	29 in	74 cm
Bottom Frame Base Width	56 in	142 cm	40 in	102 cm	18 in	45 cm
SPI System Weight (in air)	650 lb	295 kg	407 lb	185 kg	82 lb	37 kg
Combined SPI/PV System Weight	800 lb	363 kg	557 lb	253 kg	-	-
With Additional Weights Added	1050 lb	477 kg	807 lb	366 kg	-	-
Winch Lift Capacity Required	2100 lb	953 kg	1614 lb	734 kg	-	-
Minimum A-Frame Height	80 in	203 cm	80 in	203 cm	-	-

\*Specifications may be modified at any time

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